

Missouri Department of Natural Resources



PUBLIC NOTICE

DRAFT MISSOURI STATE OPERATING PERMIT

DATE: September 29, 2006

In accordance with the state Clean Water Law, Chapter 644, RSMo, Clean Water Commission regulation 10 CSR 20-6.010, and the federal Clean Water Act, the applicants listed herein have applied for authorization to either discharge to waters of the state or to operate a no-discharge wastewater treatment facility. The proposed permits for these operations are consistent with applicable water quality standards, effluent standards and/or treatment requirements or suitable timetables to meet these requirements (see 10 CSR 20-7.015 and 7.031). All permits will be issued for a period of five years, unless noted otherwise in the Public Notice for that discharge.

On the basis of preliminary staff review and the application of applicable standards and regulations, the Missouri Department of Natural Resources (MDNR), as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions. The proposed determinations are tentative pending public comment.

Persons wishing to comment on the proposed permit conditions are invited to submit them in writing to the Department of Natural Resources, St. Louis Regional Office, 7545 South Lindbergh, Suite 210, St. Louis, Missouri 63125, ATTN: Thomas M. Siegel, Chief, Permits and Engineering. Please include the permit number in all comment letters.

Comments should be confined to the issues relating to the proposed action and permit(s) and the effect on water quality. The MDNR may not consider as relevant comments or objections to a permit based on issues outside the authority of the Clean Water Commission, (see Curdt v. Mo. Clean Water Commission, 586 S.W.2d 58 Mo. App. 1979).

All comments must be postmarked by **October 29, 2006** or received in our office by 5:00 p.m. on **November 1, 2006**. The requirement of a signed document makes it impossible to accept email comments for consideration at this time. Comments will be considered in the formulation of all final determinations regarding the applications. If response to this notice indicates significant public interest, a public meeting or hearing may be held after due notice for the purpose of receiving public comment on the proposed permit or determination. Public hearings and/or issuance of the permit will be conducted or processed according to 10 CSR 20-6.020.

Copies of all draft permits and other information including copies of applicable regulations are available for inspection and copying at DNR's website, <http://www.dnr.mo.gov/env/wpp/wpcp-pn.htm> or at the Department of Natural Resources, St. Louis Regional Office, 7545 S. Lindbergh, Suite 210, St. Louis, Missouri 63125, between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday.

Public Notice Date: September 29, 2006

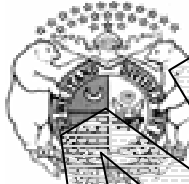
Permit Number: MO-0118192

St. Louis Regional Office

FACILITY NAME AND ADDRESS	NAME AND ADDRESS OF OWNER
Truxton Lagoon Truxton, MO 63381	Village of Truxton PO Box 214, Truxton, MO 63381
RECEIVING STREAM & LEGAL DESCRIPTION	TYPE OF DISCHARGE
Unnamed tributary to Bear Creek (U) NE ¼, NW ¼, NW ¼, Sec.22 , T49N, R3W Lincoln County	Domestic, Reissuance

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0118192

Owner: Village of Truxton
Address: PO Box 214, Truxton, MO 63381

Continuing Authority: Same as above
Address: Same as above

Facility Name: Truxton Lagoon
Facility Address: Truxton, MO 63381

Legal Description: NE ¼, NW ¼, NW ¼, Sec.22 , T49N, R3W, Lincoln County
Latitude/Longitude: +3900217/-09114296

Receiving Stream: Unnamed tributary of Bear Creek (U)
First Classified Stream and ID: Bear Creek (C) (00193)
USGS Basin & Sub-watershed No.: 07110008-030002

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

Outfall #001 POTW SIC#4952

Three-cell lagoon / sludge retained in lagoon
Design population equivalent is 150
Design flow is 12,000 gallons per day.
Actual flow is 4,400 gallons per day.
Design sludge production is 2.25 dry tons/year.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

Effective Date

Doyle Childers, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Expiration Date
MO 780-0041 (10-93)

Mike Struckhoff, Director, St. Louis Regional Office

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS				PAGE NUMBER 2 of 5		
				PERMIT NUMBER MO-0118192		
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The interim effluent limitations shall become effective upon issuance and remain in effect until <u>March 31, 2010</u> . Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	INTERIM EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001 (Note 1)</u>						
Flow	MGD	*		*	once/month	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L		65	45	once/quarter**	grab
Total Suspended Solids	mg/L		110	70	once/quarter**	grab
pH – Units	SU	***		***	once/quarter**	grab
Ammonia as N	mg/L	*		*	once/quarter**	grab
Temperature	°C	*		*	once/quarter**	grab
Oil & Grease	mg/L	15		10	once/quarter**	grab
Fecal Coliform (Note 1)	#/100mls	*		*	once/quarter**	grab
Total Residual Chlorine	mg/L	*		*	once/quarter**	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I, II, & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
 - ** Sample once per quarter in the months of March, June, September, and December.
 - *** pH is measured in pH units and is not to be averaged. The pH is to be maintained at or above 6.0 pH units.
 - **** Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31.
- Note 1 – A formal water quality review has not been conducted

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 3 of 5	
					PERMIT NUMBER MO-0118192	
<p>The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective <u>April 1, 2010</u> and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:</p>						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfall #001 (Note 1)</u>						
Flow	MGD	*		*	once/month	24 hr. estimate
Biochemical Oxygen Demand ₅	mg/L		65	45	once/quarter**	grab
Total Suspended Solids	mg/L		110	70	once/quarter**	grab
pH – Units	SU	***		***	once/quarter**	grab
Ammonia as N	mg/L	*		*	once/quarter**	grab
Temperature	°C	*		*	once/quarter**	grab
Oil & Grease	mg/L	15		10	once/quarter**	grab
Fecal Coliform (Note 1)	#/100mls	1000		400	once/quarter**	grab
Total Residual Chlorine	mg/L	0.019 (.13ML)		0.01 (.13ML)	once/quarter**	grab
<p>MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u>; THE FIRST REPORT IS DUE _____. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.</p>						
B. STANDARD CONDITIONS						
<p>IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Parts I, II, & III</u> STANDARD CONDITIONS DATED <u>October 1, 1980 and August 15, 1994</u>, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.</p>						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** Sample once per quarter in the months of March, June, September, and December.
- *** pH is measured in pH units and is not to be averaged. The pH is to be maintained at or above 6.0 pH units.
- **** Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31.

Note 1 – A formal water quality review has not been conducted

Note 2 - This permit contains a Total Residual Chlorine (TRC) limit.

- (a) This effluent limit is below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The department has determined the current acceptable ML for total residual chlorine to be 0.13 mg/L when using the DPD Colorimetric Method #4500 – CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 0.13 mg/L will be considered violations of the permit and values less than the minimum quantification level of 0.13 mg/L will be considered to be in compliance with the permit limitation. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit.
- (b) Disinfection is required year-round unless the permit specifically states that “Final limitations and monitoring requirements for Fecal Coliform are applicable only during the recreational season from April 1 through October 31.” If your permit does not require disinfection during the non-recreational months, do not chlorinate in those months.
- (c) Do not chemically dechlorinate **if it is not needed to meet the limits in your permit**.
- (d) If no chlorine was used in a given sampling period, an actual analysis is not necessary. Simply report as “0 mg/L” TRC.

C. INFLUENT MONITORING REQUIREMENTS		PAGE NUMBER 4 of 5	
		PERMIT NUMBER MO-0118192	
The facility is required to meet a removal efficiency of 65% or more. The monitoring requirements shall become effective upon issuance and remain in effect until expiration of the permit. To determine removal efficiencies, the influent wastewater shall be monitored by the permittee as specified below:			
SAMPLING LOCATION AND PARAMETER(S)	UNITS	MONITORING REQUIREMENTS	
		MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Influent</u>			
Biochemical Oxygen Demand ₅	mg/L	once/quarter**	grab
Total Suspended Solids	mg/L	once/quarter**	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE _____.			

MO 780-0010 (8/91)

C. INFLUENT MONITORING REQUIREMENTS (continued)

. ** Sample once per quarter in the months of March, June, September, and December

D. SPECIAL CONDITIONS

- This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - controls any pollutant not limited in the permit.
 - Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

- All outfalls must be clearly marked in the field.
- Permittee will cease discharge by connection to area-wide wastewater treatment system within 90 days of notice of its availability.
- Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - One hundred micrograms per liter (100 µg/L);
 - Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - The level established in Part A of the permit by the Director.
 - That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
 - That the effluent limit established in part A of the permit will be exceeded.
- Report as no-discharge when a discharge does not occur during the report period.

D. SPECIAL CONDITIONS (continued)

6. Water Quality Standards

- (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
- (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (5) There shall be no significant human health hazard from incidental contact with the water;
 - (6) There shall be no acute toxicity to livestock or wildlife watering;
 - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

7. Sludge and Biosolids Use For Domestic Wastewater Treatment Facilities

- (a) Permittee shall comply with the pollutant limitations, monitoring, reporting, and other requirements in accordance with the attached permit Standard Conditions.
 - (b) If sludge is not removed by a contract hauler, permittee is authorized to land apply biosolids. Permit Standard Conditions, Part III shall apply to the land application of biosolids. Permittee shall notify the department at least 180 days prior to the planned removal of biosolids. The department may require submittal of a biosolids management plan for department review and approval as determined appropriate on a case-by-case basis.
8. The permittee shall comply with any applicable requirements listed in 10 CSR 20-8 and 10 CSR 20-9. The monitoring frequencies contained in this permit shall not be construed by the permittee as a modification of the monitoring frequencies listed in 10 CSR 20-9. If a modification of the monitoring frequencies listed in 10 CSR 20-9 is needed, the permittee shall submit a written request to the department for review and, if deemed necessary, approval.
9. The permittee shall submit a report semi-annually in April and October with the Discharge and Monitoring reports which address measures taken to locate and eliminate sources of infiltration and inflow into the City's collection system.

E. SCHEDULE OF COMPLIANCE

The final daily maximum and monthly average Fecal Coliform limits of 1000/100ml and 400/100ml, and Total Residual Chlorine limits of 0.019 mg/L and 0.01 mg/L, respectively, shall become effective on April 1, 2010.

- a) By **October 31, 2008** submit an engineering report indicating that this facility can meet the fecal coliform limits without disinfection, or.
- b) By **October 31, 2008** submit plans and specifications (prepared by a registered professional engineer, licensed to practice in Missouri,) application and appropriate fee for a construction permit to improve the existing treatment facility or eliminate the discharge, and
- c) By **April 1, 2010** this project must be completed according to the approved plans and specifications, and the final effluent limitations must be met.

Date of Fact Sheet: September 11, 2006

Date of Public Notice: September 29, 2006

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT
FACT SHEET

This Fact Sheet explains the applicable regulations and rationale for development of this permit and the public participation process.

NPDES PERMIT NUMBER: MO-0118192

FACILITY NAME: Truxton Lagoon

OWNER NAME: Village of Truxton

LOCATION: Truxton, Missouri

RECEIVING STREAM: Tributary to Bear Creek

FACILITY CONTACT PERSON: Judith Fogdall TEL (636)597-4601

FACILITY DESCRIPTION AND RATIONALE

This facility is a 3 cell lagoon which was built in 1995 under CP#22-4909. Rural sewer grant #S-250-95 for \$70,000 was approved 9/3/96. The lagoon has a population equivalent of 150, with a design flow of 12,000 gpd. The average flow over the past two years, as reported in the discharge monitoring reports, has been 4,400 gpd.

The discharge is within two miles of Bear Creek which has been classified as Whole Body Contact Recreation. A Use Attainability Analysis Study was conducted in July, 2005 and the use has been retained. As such, fecal coliform limits apply and if chlorination is used, then TRC limits also apply. The facility does not currently have disinfection, so a schedule of compliance with interim monitoring requirements are being proposed to determine if disinfection will be required to meet the fecal coliform limit.

Effluent limitations for BOD, TSS, and pH are consistent with those found in the regulation for the receiving waterbody 10 CSR 20-7.015 (8)(B)3A]. In order to expedite the reissuance of State Operating Permits for existing lagoons, a procedure has been established to renew the operating permits for lagoons that have "equivalent to secondary" treatment effluent limits in the absence of a water quality impact study. Permits are being updated to incorporate new water quality criteria, receiving stream classification, or wasteload allocations and monitoring requirements as stipulated by a Total Maximum Daily Load (TMDL). (See attached Water Quality Review Sheet Check List) If there has been no stream survey conducted within the past five years, there is no observable water quality impacts, and the facility has been in compliance with their existing operating permit, then the operating permit will be renewed maintaining the existing lagoon limits with a reopener clause.

This permit will be issued for a period of five years.

Lat/lon +3900217/-09114296



Missouri Department of Natural Resources
Water Protection Program
Water Pollution Control Branch
NPDES Permits and Engineering Section

Water Quality Review Sheet Check List
Lagoon Operating Permit Renewal

Facility Information

FACILITY NAME: Truxton Lagoon PERMIT #: MO-0118192
FACILITY TYPE: 3 cell lagoon AGE: 10 years

Outfall Characteristics

OUTFALL	DESIGN FLOW (MGD)	ACTUAL FLOW (MGD)	ACTUAL FLOW/DESIGN FLOW
001	.012	.0044	37%

Effluent Characteristics

Biochemical Oxygen Demand (BOD₅) In Compliance ☒ Significant Noncompliance ☐
Total Suspended Solids (TSS) In Compliance ☒ Significant Noncompliance ☐
Percent Removal (>65%) BOD & TSS In Compliance ☐ Significant Noncompliance ☐
N/A ☒

Effluent Limit/Monitoring Requirement Frequency at regulatory minimum: Yes ☒ No ☐

Receiving Waterbody Information

WATERBODY NAME: Tributary to Bear Creek CLASS U
WATERBODY NAME: Bear Creek CLASS C

Discharge to or within two (2) miles of a losing stream (10 CSR 20-7.031, Table J or as determined by GSRAD) ☐

Discharge to or within two (2) miles of a classified waterbody designated for whole body contact recreation ☒

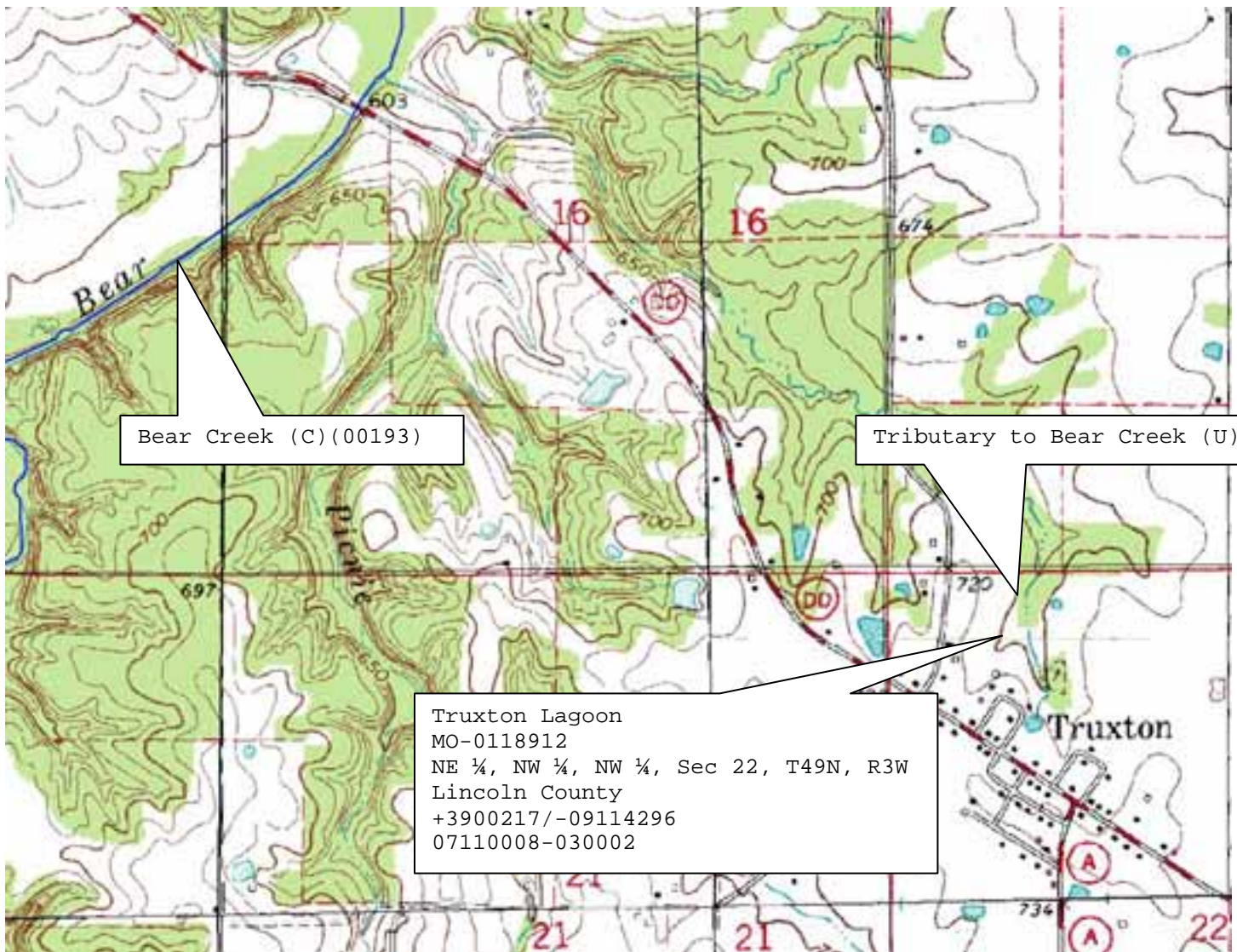
Use Attainability Analysis Conducted ☒

Stream Survey Conducted within the past five (5) years ☐ Observed water quality impacts ☐

If the facility discharges to any of the waterbody types below, is within an area experiencing rapid development, or if a site-specific water quality impact study has been conducted, this form is not applicable.

Lake/Reservoir ☐ 303(d) Waterbody ☐ Metropolitan No-Discharge Stream ☐

Outstanding National/State Resource Water and Drainages Thereto ☐



Bear Creek (C) (00193)

Tributary to Bear Creek (U)

Truxton Lagoon
MO-0118912
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Lincoln County
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